

START

November 27, 1989

Meeting Minutes Transmittal/Approval

Unit Managers Meeting: 300-FF-1 Operable Unit

450 Hills Street, Room 35, Richland, WA

November 17, 1989

From/ Appvl. Robert K. Stewart Date: 12/12/89
 Robert K. Stewart, 300-FF-1 Unit Manager, DOE-RL

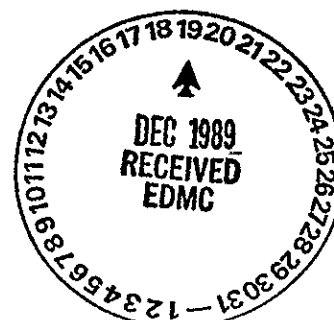
Appvl.: David P. Egan Date: 13 Dec 89
 David Egan, 300-FF-1 Unit Manager, EPA

Appvl.: Larry Goldstein Date: 12-13-89
 Larry Goldstein, 300-FF-1 Unit Manager, WA Department of Ecology

To: Doug Sherwood, EPA
 Ward Stambitz, USGS
 Mike Thompson, DOE-RL (A6-95)
 Chuck Cline, WDOE
 Jack Waite, WHC (H4-52)
 Tom Wintczak, WHC (H4-17)
 Mel Adams, WHC (H4-55)
 Bill Wright, Golder
 Roy Gephart, PNL (K6-97)
 Brian Sprouse, WHC (H4-51)
 Mark Musolf, WHC (B3-26)
 Paul Day, EPA
 Bill Price, WHC (S0-03)
 Donna Lacombe, PRC
 Larry Hulstrom, WHC (L4-92)
 Don Kane, Batelle EMO (K1-74)
 Jerry Chiaramonte, SWEC/IT (A4-35)
 ADMINISTRATIVE RECORD (300-FF-1) [Care of Susan Wray, WHC (H4-51C)]

cc. Ronald D. Izatt (A6-95)
 Director, DOE-RL, ERD
 Elizabeth A. Bracken (A6-95)
 Chief, Policy and
 Permits Br., DOE-RL, ERD
 Roger D. Freeberg (A6-95)
 Chief, Rstr. Br., DOE-RL/ERD
 H. E. (Hank) McGuire (H4-51)
 Mgr., Reg. Compli., WHC
 Richard D. Wojtasek (H4-17)
 Prgm. Mgr. WHC

Meeting minutes are attached. Minutes are comprised of the following:
 Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;
 Attachment #2 - Statused Schedule; Attachment # 3 - Agenda for the Meeting;
 Attachment #4 - Attendance List; Attachment #5 - Operable Unit
 Commitments/Agreements Status List; Attachment #6 - 300-FF-1 Work Progress;
 Attachment #7 - Changes to the 300-FF-1 data quality strategy; Attachment
 #8 - Tentative list of tasks to be deferred; and Attachment #9 - 300-FF-1 area
 surveyed (surface radiation) as of 11/16/89.



Attachment #1

Meeting Summary and Summary of Commitments and Agreements

300-FF-1 Operable Unit Managers Meeting

450 Hills Street, Room 35

November 17, 1989

1. Status of action items from the previous UM meeting was discussed. (See Attachment #5).
2. Data quality strategy - Since the last UM meeting, the data quality strategy outline for 300-FF-1 was reviewed by EPA and Ecology (See Action Item # 3FF1.19) and agreements made via telephone on changes. A markup showing the changes is given in Attachment #7.
3. Work progress was presented by Larry Hulstrom, WHC. A summary of work progress is given in Attachment #6.
4. Schedule status was presented by Larry Hulstrom. A statused schedule is given in Attachment #2. The work efforts are essentially on schedule. WHC reported that Time Line will be used as the Environmental Engineering Group standard for presentation of RI/FS schedules to the regulatory agencies.
5. Task deferrals - Larry Hulstrom reported that, as a result of budget deficiencies, several 300-FF-1 tasks are being tentatively deferred for 10 months (scheduled restart on August 1, 1990). The list of tasks proposed for deferral is given in Attachment #8.

Agreement: Deferral decisions are tentative pending outcome of meetings with the regulatory agencies on overall impacts of program budget deficiencies.

6. Surface radiation survey - The updated status of the 300-FF-1 surface radiation survey was presented by Larry Hulstrom. To date, 42 "hot spots" have been discovered. A sketch showing the areas surveyed so far is given in Attachment #9.

Agreement: The radiation survey will continue with areas outside fences given higher priority relative to fenced areas. If contamination is found north of the 300-FF-1 boundary, extension of the boundary need to be considered.

7. Several issues regarding the surface radiation survey results were discussed: posting and access restriction; sampling; interim removal actions; extension of the survey to other areas.

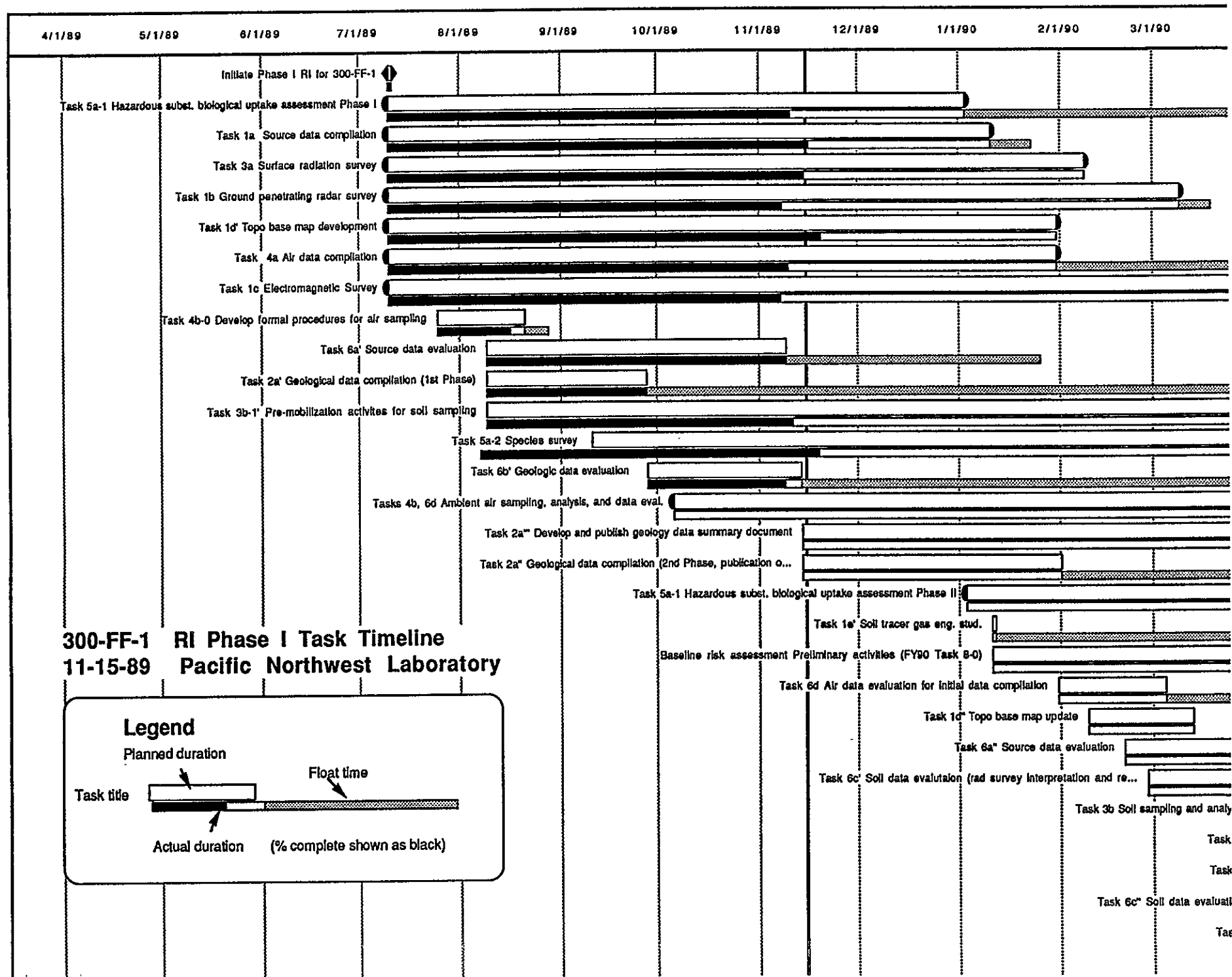
Agreement: The regulatory agencies do not need to be notified before "hot spots" are sampled for purposes of identifying hazards. Interim removal actions can be conducted on the higher level "hot spots" for safety reasons.

Action # 3FF1.20: DOE (R.K. Stewart/D. Clark) will coordinate with DOE community relations to address the issue of area postings and public access restrictions.

8. Status of procedures being written for the surface radiation survey was reported by Larry Hulstrom. Procedures are in preparation for conducting the radiation survey and associated removal actions as requested by letter from the regulatory agencies (Paul Day and Roger Stanley to Roger Freeberg dated 11/13/89).

Action # 3FF1.21: Procedures now being developed for conducting surface radiation surveys and removal actions will be provided to EPA and Ecology when available.

9. Work Plan - Larry Hulstrom reported that the table entries which refer to trans-1,2 dichloroethylene should be total 1,2 dichloroethylene. The work plan has been revised to reflect this change.



UNIT MANAGER'S MEETING AGENDA
300-FF-1 OU
November 17, 1989
9:00 - 10:00 AM
Rm 35, 450 Hills

Introduction:

Status:

Action Items

Work Plan

Remedial Investigation
Radiation survey and reporting

Schedule

Issues:

Other Topics:

Cis- vs. Trans-1,2-dichloroethylene

Agreements and Commitments

Presenter - Larry Hulstrom

Attachment #4

Attendance List
300-FF-1 Unit Managers Meeting
November 17, 1989

Name	Organization	FF-1 Responsibility	Phone
Bob Stewart	DOE-RL/ERD	Unit Manager	509-376-6192
Dave Einan	EPA	Unit Manager	509-376-3883
Larry Goldstein	WDOE	Unit Manager	206-438-7018
Mike Thompson	DOE-RL/ERD	Hydrogeologist	509-376-6421
Jerry Chiaramonte	SWEC/IT	GSSC for DOE/RL	509-376-7829
Dave Myers	SWEC/IT	GSSC for DOE/RL	509-376-0969
Ward Staubitz	USGS	EPA Consultant	206-593-6310
Chuck Cline	WDOE	Hydrogeologist	206-438-7556
Larry Hulstrom	WHC	RI Coordinator	509-376-4034
Bill Wright	GAI	Contractor Representative	206-883-0777
Khrist Olsen	PNL	Geochemistry	509-376-4114
Phil Long	PNL	Geosciences	509-376-7669
Ron Smith	PNL	Geosciences	509-376-5831
Donna Lacombe	PRC	EPA Consultant	206-624-2692
Wayne Johnson	WHC	Envir. Engineering	509-376-1721
Tom Wintczak	WHC	Contractor Representative	509-376-0902
Doug Sherwood	EPA	Environmental Engineer	509-376-9529
George Last	PNL	Geosciences	509-376-8527
Don Kane	Battelle	EMO Manager	509-375-2333
Claire Ross	WHC	EE&T Group	509-376-2731
Douglas Hildebrand	DOE-RL		509-376-7287
Diane Clark	DOE-RL		509-376-7557
Gerry Bell	DOE-RL		509-376-0680
Holly Delaney	GAI		206-883-0777

Attachment #5
 Commitments/Agreements Status List
 300-FF-1 Operable Unit
 November 17, 1989

Item No.	Action	Status
3FF1.7	1. PNL (George Last) will coordinate with Golder (Bill Wright) to find original databases relating to 4 areas of concern. 2. If information is not available, additional text will be added to the work plan to define how additional data will be obtained.	Open Footnotes added to tables of work plan to be released on 11/30.
3FF1.8	WHC will revise the work plan to include the use of XRF for metals screening. The changes will be provided for EPA/Ecology review by August 30.	Open Included in work plan to be released 11/30.
3FF1.12	DOE (Bob Stewart) and WHC (Tom Wintczak) will investigate approaches for implementing the proposed analytical strategy in the work plan.	Open Included in work plan to be released 11/30.
3FF1.14	EPA/Ecology are to be provided copies of existing Event Fact Sheets and added to the distribution list of any Event Fact Sheets which pertain to CERCLA/RCRA site investigations.	Open Copies provided by DSI on 10/24; distribution to be included in procedure being written
3FF1.15	WHC is to report at the next UM meeting the results of the surface radiation sampling to date and the plan for additional soil sampling of areas identified as hot spots.	Closed Presentation given at the 11/17 UMM
3FF1.16	WHC is to develop and document the interfaces with Decontamination and Decommissioning (D&D) personnel with regard to handling of hot spots. WHC is to report progress at the next UM meeting.	Closed Meeting held on 10/24; Another meeting will be scheduled to review draft procedure

- 3FF1.17 WHC is to provide a hard copy of the asparagus sampling results to EPA/Ecology. Results are to include levels of uranium contamination as well as other chemical contaminants. Closed
Copies provided by DSI to R.K. Stewart on 10/24
- 3FF1.18 WHC is to develop a specific plan for near surface sampling of the ash pits, backwash pond and sanitary sewer system. The plan is to be incorporated into the Work Plan. Open
Included in revised work plan to be released 11/30
- 3FF1.19 [Note: The following action item was added after the meeting by agreement between EPA and DOE regarding EPA's comments on the strategy outline: Comments on the strategy will be provided by EPA to DOE/WHC by November 3, 1989. Action: Dave Einan] Closed
Provided by telecon on 10/30. See Attachment #7.

Attachment #6
300-FF-1 Work Progress

November 17, 1989

0 Work Plan

- All comments have been incorporated. The work plan is in technical editing as of November 14.
- Request for extension of submittal date sent by DOE on November 7.
- A third draft is due to EPA/Ecology on November 30.

0 RI Activities

GENERAL

- 12 procedures have been received, 11 have been approved, and 1 is still having comments incorporated

TASK SPECIFIC

- Task 1a - The revised source data compilation draft report was received on November 14; it will be reviewed by WHC and returned to PNL asap; scheduled for release as Minor Task Completion Report by PNL on January 11, 1990.
- Task 1b - The geodetic survey of Burial Grounds 4 & 5 have been completed.
- Task 1c - Electromagnetic Induction and Ground Penetrating Radar surveys have been completed along portions of the process sewer that have been retired. Activity was scheduled to begin around the perimeters of Burial Grounds 4 & 5 within the next week.
- Task 1d - Topographic base map development is underway through Kaiser Engineers Hanford.
- Task 2a - The draft geologic data compilation report was returned to PNL with comments on October 25; scheduled for release as a Major Task Completion Report about January 31, 1990.
- Task 3a - Background surface radiation measurements were completed; to date there have been 38 "hotspots" identified within the operable unit boundary, all located outside existing fenced areas. Annual survey of Burial Grounds 4 & 5 have been completed via tractor rig device; results of this survey are being obtained to assess applicability to the RI.
- Task 5a - Asparagus sampling; draft results transmitted to DOE on October 24. Issuance of the Critique Report has been delayed to incorporate information on the toxicity levels of the contaminants that were identified.

0 Schedule

See Attachment I

* Changes approved by Dave Einan, 10-30-89

Attachment #7

300-FF-1 DATA QUALITY STRATEGY

I Data Validation - EPA's comments incorporated into QAPP

II Project Scoping

A "Source" sample locations - soil borings selected

B Surveying list - surface radiation, geophysics, soil tracer gas, soil gas

C Preliminary laboratory list (PLL)

1 metallic inorganics - Al, Sb, Be, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Ag, Zn

2 non-metallic inorganics - NH₄, H₃O, OH, F, NO₃, NO₂, SO₄

3 volatile organics - trans-1,2-DCE, DCM, PCE, TCE

* 4 non-volatile organics - ^{PCBs}~~PCB-1248~~

* 5 radionuclides - Cs-137, Co-60, gross alpha, gross beta, H-3, Sr-90, U-235, U-238, ^{Tc-99}~~Tc-99~~

D Preliminary screening list (PSL)

1 x-ray fluorescence - Al, Sb, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Ag, Zn, SO₄ (as S?), U

2 specific conductance - all inorganic ions on PLL

3 ion selective electrode - NH₄, H₃O, OH, F, NO₃

4 head space/gas chromatography - trans-1,2-DCE, DCM, PCE, TCE

* 5 solvent extraction/gas chromatography - ^{PCBs}~~PCB-1248~~

6 beta/gamma radiation - all beta- and gamma-emitting radionuclides on PLL

300-FF-1 DATA QUALITY STRATEGY, CONTINUED

III Initial Sampling and Analysis

A Surveying

- 1 surface radiation - background plot and entire operable unit
- 2 geophysics - process and retired radioactive sewer pipelines and burial grounds #4 and #5
- 3 soil tracer gas - retired radioactive sewer pipelines
- 4 soil gas - burial grounds #4 and #5

B Background characterization - 5 borings (borings to be located following completion of source data compilation and surface radiation survey tasks); -40 discrete downhole sample locations analyzed for PLL and PSL parameters

C "Source" characterization - 7 borings (borings within burial grounds #4 and #5 to be located following completion of source data compilation, surface radiation survey, geophysical survey, and soil gas survey tasks); -90 discrete downhole sample locations analyzed for PLL and PSL parameters

IV Initial Data Evaluation

A Definition of background

B Definition of laboratory list (LL)

C Correlation of PSL results with LL results

D Definition of screening list (SL) and determination of LL verification rate (5% minimum)

E Presentation of results at unit managers' meeting

V Subsequent Sampling and Analysis - sampling of -38 vertical and 6 horizontal borings; -450 discrete downhole sample locations analyzed for SL parameters, -23 analyzed for LL parameters

VI Subsequent Data Evaluation - definition of contaminant extent and identification of any additional characterization needs

IMPLEMENTATION OF THE 300-FF-1 OPERABLE UNIT
PHASE I REMEDIAL INVESTIGATIONTASK 1 - SOURCE INVESTIGATION

- 1a - Source Data Compilation To be continued
 - 1a-1 Engineering Plan
 - 1a-2 Meetings and Site Visits
- 1b - Ground Penetrating Radar Survey To be deferred*
 - 1b-1 Geodetic Survey.
 - 1b-2 GPR Sampling and Analysis
- 1c - Electromagnetic Survey To be deferred*
 - 1c-1 Process Sewer
 - 1c-2 Retired Radioactive Sewer
 - 1c-3 Geodetic Survey
- 1d - Topographic Base Map Development To be continued
- 1e - Soil Tracer Gas Survey To be deferred*
 - 1e-1 Mobilization
 - 1e-2 Gas Probe (or Well) Install.
 - 1e-3 Geodetic Survey
 - 1e-4 Soil Tracer Gas Sampling/Anal.
- 1f - Soil Gas Survey To be deferred*
 - 1f-1 Mobilization
 - 1f-2 Gas Probe (or Well) Install.
 - 1f-3 Soil Gas Sampling and Anal.
 - 1f-4 Geodetic Survey

TASK 2 - GEOLOGIC INVESTIGATION -

- 2a - Geologic Data Compilation To be deferred*

TASK 3 - SOIL INVESTIGATION -

- 3a - Surface Radiation Survey To be continued
 - 3a-1 Surface Rad. Sampling/Anal.
 - 3a-2 Geodetic Survey
- 3b - Soil Sampling and Analysis To be deferred*
 - 3b-1 Mobilization
 - 3b-2 Soil Sampling
 - 3b-3 Soil Sample Analysis
 - 3b-4 Geodetic Survey
 - 3b-5 Borehole Abandonment

* PENDING FINAL RESOLUTION OF BUDGETARY ISSUES WITH EPA AND ECOLOGY

IMPLEMENTATION OF THE 300-FF-1 OPERABLE UNIT
PHASE I REMEDIAL INVESTIGATIONTASK 4 - AIR INVESTIGATION -

- 4a - Air Data Compilation To be deferred*
- 4a-1 Meteorological Data Compil.
- 4a-2 Amb. Air Monitoring Eval.
- 4b - Ambient Air Sampling To be continued - procedure development only
- 4b-1 Ambient Air Sampling
- 4b-2 Ambient Air Sample Analysis

TASK 5 - TERRESTRIAL BIOLOGICAL INVESTIGATION -

- 5a - Biological Survey To be continued - asparagus sampling only
- 5a-1 Haz. Sub. Biol. Uptake Ass.
- 5a-2 Species Survey

TASK 6 - DATA EVALUATION -

To be deferred*

- 6a - Source Data Evaluation
- 6b - Geologic Data Evaluation
- 6c - Soil Data Evaluation To be continued as related to hotspots
- 6d - Air Data Evaluation
- 6e - Terrestrial Biological Data Eval. To be continued as related to asparagus
- 6f - Integration of Data Eval. Tasks

TASK 7 - VERIFICATION OF ARAR'S

To be deferred*

TASK 8 - BASELINE RISK ASSESSMENT

To be deferred*

- 8a - Contaminant Identification
- 8b - Exposure Assessment
- 8c - Toxicity Assessment
- 8d - Risk Characterization

TASK 9 - PHASE I RI REPORT -

To be deferred*

AREA SURVEYED AS OF NOV. 16, 1989

